

## Maharshi Pathak

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### EDUCATION

#### Lakehead University

M.S. in Computer Science

Thunder Bay, Canada  
September 2019 - May 2021

- **GPA: 3.7/4.0**
- **Related Coursework:** Cloud Computing, Deep learning, Software Engineering Principles, Security

#### Charotar University of Science & Technology

B.S. in IT

Gujarat, India  
July 2015 – April 2019

- **GPA: 8.62/10**
- **Related Coursework:** Data Structures, Operating Systems, Web Technologies

### EXPERIENCE

#### Canada Revenue Agency

IT Infrastructure Analyst

Mississauga, Canada  
Aug 2021 - Mar 2025

- Deployed microservices on AWS EKS by configuring EC2 instances and Kubernetes clusters, improving the scalability and performance of internal tools used by over 1,000 users.
- Automated operational workflows using Python scripts and custom tools, reducing ticket resolution time by 20% and saving more than 10+ hours weekly across the infrastructure support team.
- Monitored system reliability through AWS CloudWatch, Prometheus, and Grafana, proactively identifying latency and resource issues, resulting in 99% uptime for critical CRA systems.
- Implemented Infrastructure as Code using Terraform for Kubernetes and AWS resources, managing remote state securely via S3 and DynamoDB, streamlining deployment for 3 development teams.
- Resolved over 150+ production incidents, including AWS VPC and peering issues, achieving 95% SLA compliance and earning commendation for minimizing downtime and ensuring business continuity.

### PROJECTS

#### Deploy a Three-Tier Application on AWS EKS

- Deployed a 3-tier e-commerce application on AWS EKS by containerizing 8+ microservices across Java, Python, Go, and PHP, integrating dependencies to support modular scaling and service separation.
- Automated the setup of 15+ Kubernetes resources using custom Helm charts, enabling consistent, version-controlled deployments and reducing manual provisioning efforts by 75% across environments.

#### End-to-End GitOps Pipeline

- Engineered a 6-stage CI/CD pipeline with Jenkins, Docker, and Argo CD for a Spring Boot app, automating deployment to Kubernetes and reducing release cycle time by 40%.
- Integrated SonarQube static analysis into Jenkins, enforcing security gates for 5+ vulnerability types, improving code quality assurance before Maven-based artifact builds and Docker image creation.

#### Deploy a Three-Tier Application on Azure AKS

- Deployed a 3-tier application on AKS using Helm to manage 10+ microservices and databases, achieving stable, modular deployment across staging and production clusters.
- Configured StatefulSets with Azure Disks for Redis and critical databases, ensuring persistent data storage, fault tolerance, and improved high availability across multiple Azure zones.

#### End-to-End CI/CD Pipeline with Azure DevOps, AKS, and Argo CD

- Built an automated Azure DevOps pipeline for 3+ microservices, integrating Docker and Argo CD to deliver 100% reduction in manual deployments through full automation and GitOps.
- Managed deployment lifecycle by pushing Docker images to Azure Container Registry and scripting manifest updates, increasing deployment consistency by 60% across AKS environments.

### SKILLS & CERTIFICATIONS

**Programming:** Python, Shell scripting

**Cloud Computing:** AWS (EC2, VPC, CloudWatch, EKS), Azure

**Containerization & Pipelines:** Docker, Kubernetes

**CI/CD:** Jenkins, GitHub Actions, Argo CD, Azure Pipelines, AWS Pipelines

**Others:** Prometheus, Grafana, Terraform

**AWS Certified Solutions Architect – Associate**